# Contents to volume 316

## Research Letters

Role of a serum phospholipase $A_1$ in the phosphatidylserine-induced T cell inhibition (FEBS 11990) *F. Bellini, A. Bruni* 1
Confirmation and an unusual quality of the differentiated keratin peptide (K1) in cultured human squamous cell carcinomas (FEBS 11992) *Y. Katagata, T. Yoshida* 5
Localization of Kex2-like processing endoproteases, furin and PC4, within mouse testis by in situ hybridization (FEBS 11994) *S. Torii, T. Yamagishi, K. Murakami, K. Nakayama* 12
Gluten exorphin C: A novel opioid peptide derived from wheat gluten (FEBS 11997) *S.-i. Fukudome, M. Yoshikawa* 17
Developmental changes in the expression of HMG 2a protein (FEBS 11999) *T. Oka, T. Sasakawa, N. Komori, K.-i. Miyamoto, I. Suzuki, T. Sassa, Y. Natori* 20
Sequence similarities in $(\alpha/\beta)_8$-barrel enzymes revealed by conserved regions of α-amylase (FEBS 12001) *Janeček* 23
Prevention of phospholipase-C induced aggregation of low density lipoprotein by amphipathic apolipoproteins (FEBS 12003) *H. Liu, D.G. Scraba, R.O. Ryan* 27
On the activation of phosphodiesterase by a 26 kDa protein (FEBS 12006) *S.S. Nikonov, G.N. Filatov, E.E. Fesenko* 34
Expression of mRNAs encoding the α1 and the β1 subunits of $Na^+,K^+$-ATPase in human lymphocytes activated with phytohaemagglutinine (FEBS 12007) *A.A. Vereninov, I.I. Marakhova, V.V. Osipov, F.V. Toropova* 37
High levels of profilin suppress the lethality caused by overproduction of actin in yeast cells (FEBS 12010) *V. Magdolen, D.G. Drubin, G. Mages, W. Bandlow* 41
Characterization of cAMP-dependent protein kinase activation by CCK in rat pancreas (FEBS 12012) *C.R. Marino, S.D. Leach, J.F. Schaefer, L.J. Miller, F.S. Gorelick* 48
The C-terminal tripeptide of glycosomal phosphoglycerate kinase is both necessary and sufficient for import into the glycosomes of *Trypanosoma brucei* (FEBS 12011) *J.M. Sommer, G. Peterson, G.-A. Keller, M. Parsons, C.C. Wang* 53
Synthesis and binding characteristics of two sulfhydryl-reactive probes for vasopressin receptors (FEBS 12014) *I. Pávó, E. Kojro, F. Fahrenholz* 59
Cloning of the rat heart $Na^+$-$Ca^{2+}$ exchanger and its functional expression in HeLa cells (FEBS 12021) *W. Low, J. Kasir, H. Rahamimoff* 63
Early cell cycle diacylglycerol (DAG) content and protein kinase C (PKC) activity enhancement potentiates prostaglandin F2α (PGF2α) induced mitogenesis in Swiss 3T3 cells (FEBS 12015) *M. Goin, O. Pignataro, L. Jimenez de Asua* 68
Calcium homeostasis in yeast cells exposed to high concentrations of calcium: Roles of vacuolar $H^+$-ATPase and cellular ATP (FEBS 12016) *D. Halachmi, Y. Eilam* 73
Expression of hepatic calcium-binding protein regucalcin mRNA is mediated through $Ca^{2+}$/calmodulin in rat liver (FEBS 12017) *N. Shimokawa, M. Yamaguchi* 79
Early induction of $Na^+$-dependent uridine uptake in the regenerating rat liver (FEBS 12018) *B. Ruiz-Montasell, J.V. Martinez-Mas, C. Enrich, F.J. Casado, A. Felipe, M. Pastor-Anglada* 85
N-terminal amino acid sequences of the subunits of the $Na^+$-translocating $F_1F_0$ ATPase from *Propionigenium modestum* (FEBS 12020) *U. Gerike, P. Dimroth* 89
Chloroplast envelope protein encoded by chloroplast genome (FEBS 12023) *Y. Sasaki, K. Sekiguchi, Y. Nagano, R. Matsuno* 93
Thromboxane $A_2$ analogue U 46619 enhances tumour cell proliferation in HeLa cells via specific receptors which are apparently distinct from $TXA_2$ receptors on human platelets (FEBS 12025) *S. Nigam, S. Eskafi, A. Roscher, H. Weitzel* 99

## Commentary

Comment to Knoop et al. (1990) FEBS Letters 267, 9–12, Toxin B of *Clostridium difficile* does not have enolase activity (FEBS 12004) *A.C. Fluit, M.J.H.M. Wolfhagen, M. Jansze, R. Torensma, J. Verhoef* 103
Commentary Response (FEBS 12005) *F.C. Knoop* 105

## Research Letters

Structure–activity profiles of macrolactam immunosuppressant FK-506 analogues (FEBS 12019) *M. Kawai, B.C. Lane, G.C. Hsieh, K.W. Mollison, G.W. Carter, J.R. Luly* 107
Structure and sequence of an intronless gene for human casein kinase II-α subunit (FEBS 12026) *I. Devilat, P. Carvallo* 114
Lipid transfer proteins (nsLTPs) from barley and maize leaves are potent inhibitors of bacterial and fungal plant pathogens (FEBS 12022) *A. Molina, A. Segura, F. García-Olmedo* 119
Stabilization of xylanase by random mutagenesis (FEBS 12027) *A. Arase, T. Yomo, I. Urabe, Y. Hata, Y. Katsube, H. Okada* 123
Purification and sequencing of cytochrome *b* from potato reveals methionine cleavage of a mitochondriallly encoded protein (FEBS 12028) *H.-P. Braun, U.K. Schmitz* 128
cDNA cloning and expression of an *Arabidopsis* GTP-binding protein of the ARF family (FEBS 12029) *F. Regad, C. Bardet, D. Tremousaygue, A. Moisan, B. Lescure, M. Axelos* 133
Identification of an essential glutamate residue in the active site of endoglucanase III from *Trichoderma reesei* (FEBS 12002) *R. Macarron, J. van Beeumen, B. Henrissat, I.d. la Mata, M. Claeyssens* 137
Purification and characterization of the head-activator receptor from a multi-headed mutant of *Chlorohydra viridissima* (FEBS 12038) *S. Christians, K.-H. Neubauer, H. Ulrich* 141
Identification and characterization of an anti-tyrosine kinase factor in cystic gliomas (FEBS 11996) *F. Berger, M. Laine, G. Amalfitano, J.F. Brunet, J.M. Verna, M.F. Nissou, A.L. Benabid* 147
Immunogold localisation of ubiquitin–protein conjugates in Sf9 insect cells: Implications for the biogenesis of lysosome-related organelles (FEBS 12039) *P. Löw, F.J. Doherty, M. Sass, J. Kovács, R.J. Mayer, L. László* 152
Effect of modification of carbohydrate component on properties of glucoamylase (FEBS 11988) *K.N. Neustroev, A.M. Golubev, L.M. Firsov, F.M. Ibatullin, I.I. Protasevich, A.A. Makarov* 157
c-*fos* gene expression in cell revertants from a transformed to a pseudonormal phenotype (FEBS 12024) *Y.V. Lavrovsky, F.P. Svinarchuk, V.A. Lavrovsky, Y.R. Yefremov, V.V. Vlassov* 161
Cloning and characterization of the elongation factor EF-1β homologue of *Saccharomyces cerevisiae*: EF-1β is essential for growth (FEBS 12040) *K. Hiraga, K. Suzuki, E. Tsuchiya, T. Miyakawa* 165
GTPγS and phorbol ester act synergistically to stimulate both $Ca^{2+}$-independent secretion and phospholipase D activity in permeabilized human platelets: Inhibition by BAPTA and analogues (FEBS 12041) *J.R. Coorssen, R.J. Haslam* 170
Cloned human brain nitric oxide synthase is highly expressed in skeletal muscle (FEBS 12051) *M. Nakane, H.H.H.W. Schmidt, J.S. Pollock, U. Förstermann, F. Murad* 175

Molecular weight-determination of biosynthetically modified monomeric and oligomeric muropeptides from *Escherichia coli* by plasma desorption-mass spectrometry (FEBS 12034) *M. Caparrós, E. Pittenauer, E.R. Schmid, M.A. de Pedro, G. Allmaier* 181
Conformational changes in subdomain-2 of G-actin upon polymerization into F-actin and upon binding myosin subfragment-1 (FEBS 12036) *S. Fievez, M.-F. Carlier* 186
Characterization of metabotropic glutamate receptors coupled to a pertussis toxin sensitive G-protein in bovine brain coated vesicles (FEBS 12035) *M. Martín, J.M. Sanz, A. Cubero* 191

Book Reviews (FEBS 12030) 197

Booklist No. 111 205

## Hypothesis

The 'non-exchangeable' nucleotides of $F_1$–$F_0$ATP synthase: Cofactors in hydrolysis? (FEBS 12048) *D.A. Harris* 209

## Minireview

Binuclear centre structure of terminal protonmotive oxidases (FEBS 12053) *S. Brown, A.J. Moody, R. Mitchell, P.R. Rich* 216

## Research Letters

FAD-linked glycerophosphate dehydrogenase deficiency in pancreatic islets of mice with hereditary diabetes (FEBS 12037) *A. Sener, L. Herberg, W.J. Malaisse* 224
Functional expression of 5-$HT_{1c}$ receptor cDNA in COS 7 cells and its influence on protein kinase C (FEBS 12052) *E.M. Lutz, R. Mitchell, M.S. Johnson, D. MacEwan* 228
A new family of basic cysteine-rich plant antifungal proteins from Brassicaceae species (FEBS 12046) *F.R.G. Terras, S. Torrekens, F. Van Leuven, R.W. Osborn, J. Vanderleyden, B.P.A. Cammue, W.F. Broekaert* 233
Evidence for a role for protein kinase C in the stimulation of protein synthesis by insulin in swiss 3T3 fibroblasts (FEBS 12047) *G.I. Welsh, C.G. Proud* 241
Conserved secondary structures in the ITS2 of trematode pre-rRNA (FEBS 12042) *B. Michot, L. Despres, F. Bonhomme, J.-P. Bachellerie* 247
Multiple genes for G protein-coupled receptors and their expression in lingual epithelia (FEBS 12044) *K. Abe, Y. Kusakabe, K. Tanemura, Y. Emori, S. Arai* 253
Expression of highly active sex-inducing pheromone of *Volvox carteri* f. *nagariensis* in a mammalian cell system (FEBS 12049) *L. Jaenicke, O. Feldwisch, B. Merkl, A. Cremer, I.G. Haas* 257
Mosquito DNA polymerase ε (FEBS 12045) *Seung-Koo Lee, M. S. Fuchs* 261
Identification and partial purification of a *Bacillus thuringiensis* CryIC δ-endotoxin binding protein from *Spodoptera littoralis* gut membranes (FEBS 12050) *V. Sanchis, D. J. Ellar* 264
In vitro complex formation between cholesterol and $\alpha_1$-proteinase inhibitor (FEBS 12064) *S. Janciauskiene, S. Eriksson* 269
Adenosine analogs inhibit the guanine-7-methylation of mRNA cap structures (FEBS 12065) *K.A. Oxenrider, G. Bu, T.O. Sitz* 273
Effects of tyrosine kinase inhibitors on protein kinase-independent systems (FEBS 12068) *S.W. Young, R.C. Poole, A.T. Hudson, A.P. Halestrap, R.M. Denton, J.M. Tavaré* 278
Forskolin stimulates porcine sperm capacitation by increasing calcium uptake (FEBS 12031) *N. Okamura, M. Tanba, A. Fukuda, Y. Sugita, T. Nagai* 283

FEBS News 287

Author Index to Volume 316 288

Contents to Volume 316 291